Influence of intraoperative radiation therapy on locally advanced and recurrent colorectal tumors: A 16-year experience

Justin T. Brady a, Benjamin P. Crawshaw a, Barrington Murrell b, Eslam M.G. Dosokey a, Murad A. Jabir a, Scott R. Steele a, Sharon L. Stein a, Harry L. Reynolds Jr a, *

Abstract:

Background: Intraoperative radiation therapy (IORT) has been proposed as a tool to improve local control in patients with locally advanced primary or recurrent colorectal cancer. Methods: A retrospective review (1999e2015) of all patients undergoing IORT for locally advanced or recurrent colorectal cancer at a single academic center was performed. Patient demographics, oncologic staging, short-term and long-term outcomes were reviewed. Results: There were 77 patients (mean age 63 ± 11 years) identified, of whom 19 had colon cancer, 57 had rectal cancer, and 2 had appendiceal cancers. R0 resection was performed in 53 patients (69%), R1 in 19 (25%) and R2 in 5 (6%). Ten (13%) patients had a local recurrence at 18 ± 14 months and 34 (44%) had a distant recurrence at 18 ± 18 months. Mean survival was 47 ± 41 months. Conclusion: IORT resulted in low local failure rates and should be considered for patients with locally advanced or recurrent colorectal cancers.

Keywords:

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